

FORM PTO-1449, Adapted

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| ATTY. DOCKET NO.<br>17509-0024       | SERIAL NO.<br>08/042,996 | FILING DATE<br>January 9, 2002 |
| APPLICANT(S)<br>Santini, Jr., et al. |                          | GROUP<br>3763                  |

| U.S. PATENT DOCUMENTS |                 |          |                  |       |          |                            |
|-----------------------|-----------------|----------|------------------|-------|----------|----------------------------|
| EXAMINER'S INITIALS   | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| mlh                   | 3,692,027       | 09/19/72 | Ellinwood, Jr.   |       |          |                            |
|                       | 4,360,019       | 11/23/82 | Portner et al.   |       |          |                            |
|                       | 4,507,115       | 03/26/85 | Kambara et al.   |       |          |                            |
|                       | 4,585,652       | 04/29/86 | Miller et al.    |       |          |                            |
|                       | 4,731,049       | 03/15/88 | Parsi            |       |          |                            |
|                       | 4,793,825       | 12/27/88 | Benjamin et al.  |       |          |                            |
|                       | 5,042,975       | 08/27/91 | Chien et al.     |       |          |                            |
|                       | 5,167,625       | 12/01/92 | Jacobsen et al.  |       |          |                            |
|                       | 5,170,801       | 12/15/92 | Casper et al.    |       |          |                            |
|                       | 5,200,051       | 04/06/93 | Cozzette, et al. |       |          |                            |

| FOREIGN PATENT DOCUMENTS |                 |          |         |                                     |                       |
|--------------------------|-----------------|----------|---------|-------------------------------------|-----------------------|
|                          | DOCUMENT NUMBER | DATE     | COUNTRY | NAME                                | TRANSLATION<br>YES NO |
| mlh                      | 93/03790        | 03/04/93 | WO      | Rutgers, The State University of NJ |                       |
|                          | 197 16 683      | 06/04/98 | DE      | Fraunhofer Ges Forschung            | X                     |
|                          | 00/40089        | 07/13/00 | WO      | Massachusetts Eye & Ear Infirmary   |                       |
|                          | 01/12157        | 02/22/01 | WO      | MicroCHIPS, Inc.                    |                       |

| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) |  |
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| mlh   | Ambati, et al., "Transscleral Delivery of Antibodies to the Posterior Segment," Investigative Ophthalm. & Visual Sci., 40(4):457-B417 (1999).        |
|   | Barillaro, et al., Optical Materials, 17(1-2):91-94 (2001).  |
|   | Bremus-Kobberling, et al., "Laser Microperforation of a Retina Implant," Presentation at Microtechnology Conference, Germany, September 25-26, 2000. |
|   | Low, et al., "Microactuators Towards Microvalves for Responsive Controlled Drug Delivery," Sensors & Actuators B 67: 149-60 (2000).                  |

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| EXAMINER<br><i>M. M. K.</i> | DATE CONSIDERED<br>2/16/05 |
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ATTY. DOCKET NO.

17509-0024

SERIAL NO.

90042,996

FILING DATE

January 9, 2002

APPLICANT(S)

Santini, Jr., et al.

GROUP

3763

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|----------|-----------------|-------|----------|-------------------------------|
| mlh.                | 5,252,294       | 10/12/93 | Kroy et al.     |       |          |                               |
|                     | 5,279,607       | 01/18/94 | Schentag et al. |       |          |                               |
|                     | 5,318,557       | 06/07/94 | Gross           |       |          |                               |
|                     | 5,324,316       | 06/28/94 | Schulman et al. |       |          |                               |
|                     | 5,336,213       | 08/09/94 | D'Angelo et al. |       |          |                               |
|                     | 5,366,454       | 11/22/94 | Currie et al.   |       |          |                               |
|                     | 5,368,704       | 11/29/94 | Madou et al.    |       |          |                               |
|                     | 5,368,588       | 11/29/94 | Bettinger       |       |          |                               |
|                     | 5,429,822       | 07/04/95 | Gresser et al.  |       |          |                               |
| ✓                   | 5,443,508       | 08/22/95 | Giampapa        |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|      | DOCUMENT NUMBER | DATE     | COUNTRY | NAME                                  | TRANSLATION<br>YES NO |  |
|------|-----------------|----------|---------|---------------------------------------|-----------------------|--|
| mlh. | 01/35928        | 05/25/01 | WO      | MicroCHIPS, Inc.                      |                       |  |
|      | 01/37926        | 05/31/01 | WO      | Abiomed, Inc.                         |                       |  |
|      | 01/41736        | 06/14/01 | WO      | Massachusetts Institute of Technology |                       |  |
| ✓    | 01/64344        | 09/07/01 | WO      | MicroCHIPS, Inc.                      |                       |  |

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| mlh. | Madou & Florkey, "From Batch to Continuous Manufacturing of Microbiomedical Devices," <i>Chem. Rev.</i> , 100: 2679-92 (2000).   |
|      | Madou, <i>Fundamentals of Microfabrication</i> , pp. 468-512 (CRC Press 1997).   |
|      | Madou & He, "Exploitation of a Novel Artificial Muscle for Controlled Drug Delivery," pp. 495-497 (1999).  |
| ✓    | Schwarz, et al., "Micro Implantable Visual Prostheses," 1 <sup>st</sup> Annual Int'l IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, Lyon, France, October 12-14, 2000. |

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| ATTY. DOCKET NO.<br>17509-0024       | SERIAL NO.<br>10/197,996 | FILING DATE<br>January 9, 2002 |
| APPLICANT(S)<br>Santini, Jr., et al. |                          | GROUP<br>3763                  |

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME                | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|----------|---------------------|-------|----------|-------------------------------|
| mlh.                | 5,474,527       | 12/12/95 | Bettinger           |       |          |                               |
|                     | 5,585,069       | 12/17/96 | Zanzucchi et al.    |       |          |                               |
|                     | 5,713,954       | 02/03/98 | Rosenberg et al.    |       |          |                               |
|                     | 5,797,898       | 08/25/98 | Santini, Jr. et al. |       |          |                               |
|                     | 5,798,042       | 08/25/98 | Chu et al.          |       |          |                               |
|                     | 5,807,397       | 09/15/98 | Barreras            |       |          |                               |
|                     | 5,841,122       | 11/24/98 | Kirchhoff           |       |          |                               |
|                     | 5,842,787       | 12/01/98 | Kopf-Sill et al.    |       |          |                               |
|                     | 5,843,767       | 12/01/98 | Beattie             |       |          |                               |
| ✓                   | 5,962,081       | 10/05/99 | Ohman et al.        |       |          |                               |

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**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE     | COUNTRY | NAME                                  | TRANSLATION<br>YES NO |
|-----------------|----------|---------|---------------------------------------|-----------------------|
| mlh. 01/91902   | 12/06/01 | WO      | Massachusetts Institute of Technology |                       |
|                 |          |         |                                       |                       |
|                 |          |         |                                       |                       |
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| mlh. | Surbled, et al., "Shape Memory Alloys for Micromembranes Actuation,"<br><i>SPIE</i> , 3825: 63-70 (1999).  |
|      | Surbled, et al., "Array of Shape Memory Alloy One-Shot Micro-Valves for Drug Delivery,"<br><i>MME '99</i> , Gif sur Yvette, France (Sept. 27-28, 1999).      |
|      | Tierney, et al., "New Electrolase Systems Based on Microporous Membranes,"<br><i>J. Electrochem. Soc.</i> , 137:3789-3793 (1990).                            |
| ✓    | Tierney, et al., "Electrolase Composite Membranes for Delivery of Insulin and Other<br>Biomacromolecules," <i>J. Electrochem. Soc.</i> , 137:2005-06 (1990). |

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FORM PTO-1449, Adapted

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ATTY. DOCKET NO.

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SERIAL NO.

10/042,985

FILING DATE

January 9, 2002

APPLICANT(S)

Santini, Jr., et al.

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**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME                  | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|----------|-----------------------|-------|----------|-------------------------------|
| mlh.                | 5,976,336       | 11/02/99 | Dubrow et al.         |       |          |                               |
|                     | 5,989,445       | 11/23/99 | Wise et al.           |       |          |                               |
|                     | 6,047,214       | 04/04/00 | Mueller et al.        |       |          |                               |
|                     | 6,096,656       | 08/01/00 | Matzke et al.         |       |          |                               |
|                     | 6,063,116       | 05/16/00 | Kelleher et al.       |       |          |                               |
|                     | 6,123,861       | 09/26/00 | Santini, Jr. et al.   |       |          |                               |
|                     | 6,140,740       | 10/31/00 | Porat, et al.         |       |          |                               |
|                     | 6,171,850       | 01/09/01 | Nagle et al.          |       |          |                               |
|                     | 6,243,608       | 06/05/01 | Pauly et al.          |       |          |                               |
|                     | 09/638,109      |          | Santini, Jr., et al.  |       |          | 08/11/00                      |
|                     | 09/715,493      |          | Santini, Jr., et al.  |       |          | 11/17/00                      |
|                     | 09/727,858      |          | Richards, et al.      |       |          | 12/01/00                      |
|                     | 09/798,562      |          | Santini, Jr., et al.  |       |          | 03/02/01                      |
|                     | 09/975,672      |          | Sheppard, Jr., et al. |       |          | 10/10/01                      |
| ✓                   | 09/975,786      |          | Sheppard, Jr., et al. |       |          | 10/11/01                      |

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mlh. <http://www.controldelivery.com/cdstech.htm> (2001).

mlh. [http://eyetechpharma.com/science/science\\_clinical.asp](http://eyetechpharma.com/science/science_clinical.asp) (2001).

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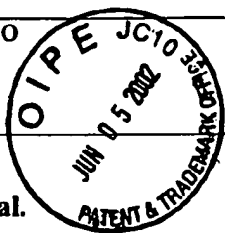
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| ATTY. DOCKET NO<br>17509-0024        | SERIAL NO.<br>10/042,996 | FILING DATE:<br>January 9, 2002 |
| APPLICANT(S)<br>Santini, Jr., et al. |                          | GROUP<br>3763                   |



## U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | DOCUMENT NUMBER | DATE     | NAME    | CLASS | SUBCLASS | FILING DATE If Appropriate |
|---------------------|-----------------|----------|---------|-------|----------|----------------------------|
| mbh                 | 6,334,859       | 01/01/02 | Richter | /     | /        |                            |
|                     |                 |          |         |       |          |                            |
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FORM PTO-449, adapted

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APPLY. DOCKET NO.  
17509-0024

SERIAL NO.

10/042,996

FILING DATE

January 9, 2002

APPLICANT

John T. Santini, Jr. et al.

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**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE              | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------------------|------------------|-------|----------|-------------------------------|
| mbh.                | 2002/0111658 A1 | August 15, 2002   | Greenberg et al. |       |          |                               |
| mbh.                | 2002/0188282 A1 | December 12, 2002 | Greenberg        |       |          |                               |
|                     |                 |                   |                  |       |          |                               |
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SERIAL NO.

10/042,996

FILING DATE:

January 9, 2002

APPLICANT(S)

Santini, Jr., et al.

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## U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | DOCUMENT NUMBER | DATE     | NAME           | CLASS | SUBCLASS | FILING DATE<br>If Appropriate |
|---------------------|-----------------|----------|----------------|-------|----------|-------------------------------|
| mbh.                | 5,707,643       | 01/13/98 | Ogura et al.   |       |          |                               |
|                     | 5,743,274       | 04/28/98 | Peyman         |       |          |                               |
|                     | 5,824,072       | 10/20/98 | Wong           |       |          |                               |
|                     | 6,124,259       | 09/26/00 | Delmage et al. |       |          |                               |
|                     | 2003/0069560    | 04/10/03 | Adamis et al.  |       |          |                               |
|                     |                 |          |                |       |          |                               |
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| DOCUMENT NUMBER | DATE | COUNTRY | NAME | TRANSLATION<br>Yes No |
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